UNITED STATES GEOLOGICAL SURVEY

BULLETIN GW-32
NEW YORK WATER POWER AND CONTROL COMMISSION

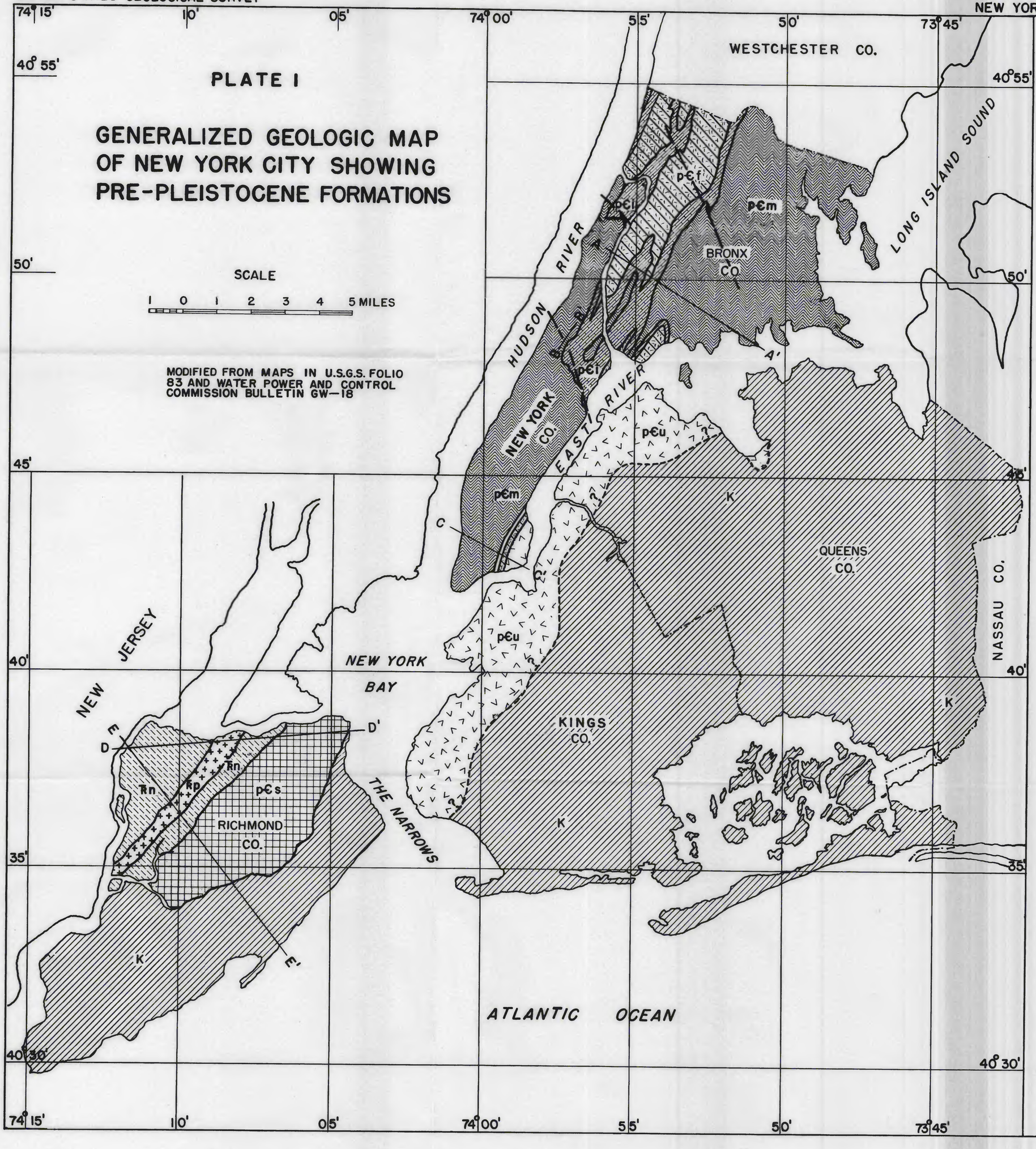
PLATE I

GENERALIZED GEOLOGIC MAP OF NEW YORK CITY SHOWING PRE-PLEISTOCENE FORMATIONS

SCALE

1 0 1 2 3 4 5 MILES

MODIFIED FROM MAPS IN U.S.G.S. FOLIO 83 AND WATER POWER AND CONTROL COMMISSION BULLETIN GW-18



EXPLANATION

- K — MAGOTHY (?) AND RARITAN FORMATIONS ON LONG ISLAND, UNDIFFERENTIATED ROCKS ON STATEN ISLAND — CRETACEOUS
- Rp — PALISADE DIABASE — TRIASSIC
- Rn — NEWARK GROUP — TRIASSIC
- pCs — STATEN ISLAND SERPENTINE OF MERRILL — PRE-CAMBRIAN(?)
- pCm — MANHATTAN SCHIST — PRE-CAMBRIAN
- pCi — INWOOD LIMESTONE — PRE-CAMBRIAN
- pCf — FORDHAM GNEISS — PRE-CAMBRIAN
- pCu — UNDIFFERENTIATED CRYSTALLINE ROCKS (INCLUDE SCHIST, GNEISS, LIMESTONE, AND GRANODIORITE) — PRE-CAMBRIAN

——— FAULTS

A ——— A' SECTION LINES

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PLATE 2

APPROXIMATE AREAL DISTRIBUTION OF PLEISTOCENE DEPOSITS IN NEW YORK CITY

EXPLANATION

QUATERNARY

GROUND MORAINE
(TILL COMPOSED OF CLAY, SAND, AND BOULDERS)

TERMINAL MORAINE
(TILL COMPOSED OF CLAY, SAND, AND BOULDERS)

OUTWASH DEPOSITS
(SAND AND GRAVEL)

SCALE

1 0 1 2 3 4 5 MILES

MODIFIED FROM A MAP IN U. S. G. S. FOLIO 83

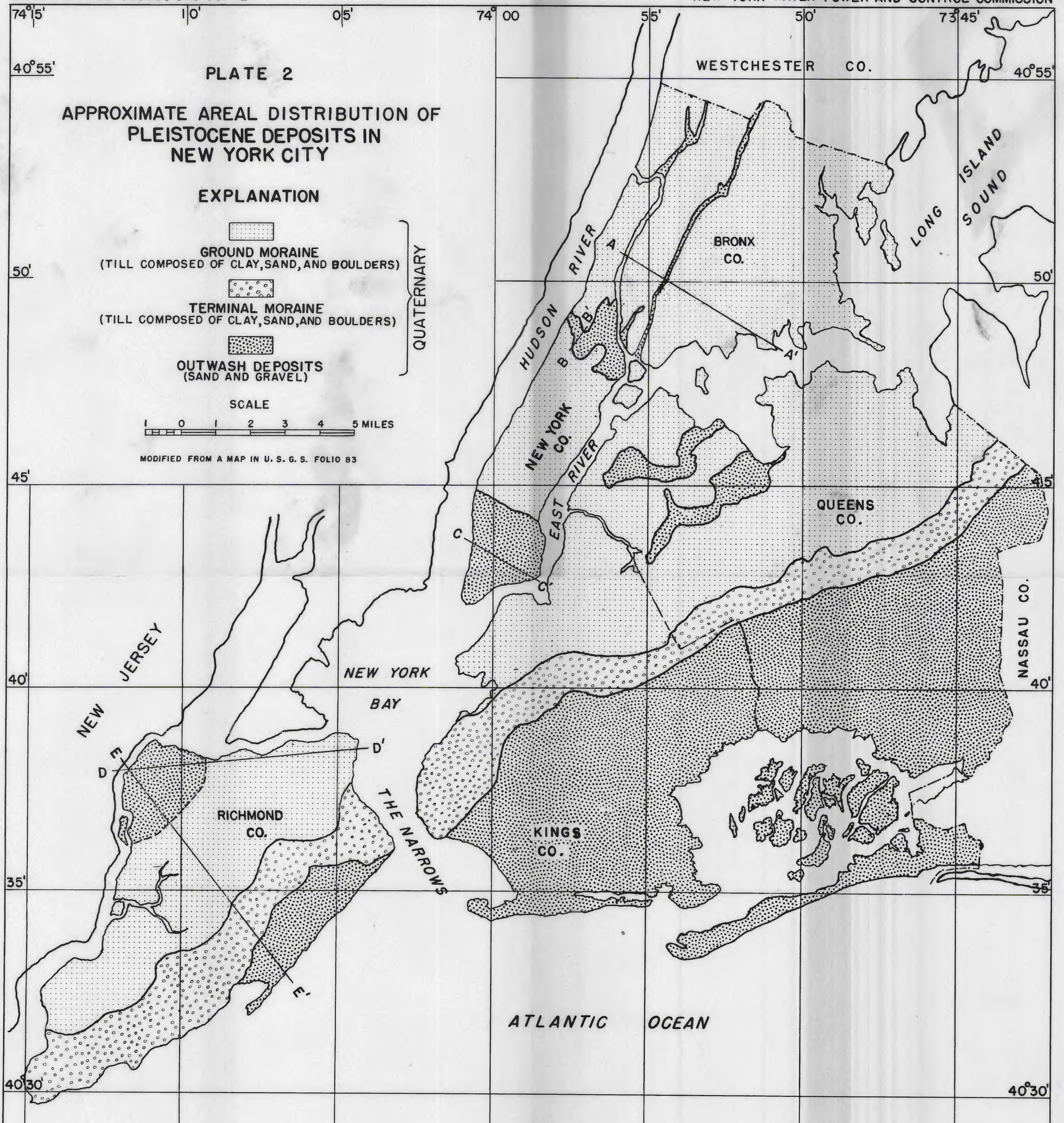

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PLATE 3

LOCATION OF SELECTED WELLS AND BORINGS IN BRONX COUNTY, N. Y.

EXPLANATION

• 41 WELL SYMBOL AND NUMBER

A——A' LINE OF GEOLOGIC SECTION IN FIGURE 3

SCALE 0 ½ 1 Mile

40°55'

73°55'

73°50'

40°50'

NEW JERSEY

HUDSON RIVER

BERGEN CO.

BRONX CO.

NEW YORK CO.

NEW YORK RIVER

HARLEM RIVER

WESTCHESTER CO.

BRONX CO.

HILL VIEW RES.

VAN CORTLANDT PARK

TIBBIT BROOK

BROADWAY

WOODLAWN CEMETARY

AVENUE

BRONX RIVER

E. 233RD STREET

JEROME PARK RES.

BRONX

GUN HILL ROAD

BOSTON ROAD

WEBSTER AVENUE

EAST FORDHAM ROAD

JEROME AVENUE

BRONX PARK

BRONX PELHAM PARKWAY

HUTCHINSON RIVER PARKWAY

PELHAM BAY PARK

CITY ISLAND

EAST TREMONT AVENUE

CROTONA PARK

PLAINS ROAD

WESTCHESTER AVENUE

BOULEVARD

E. 165TH STREET

BOSTON ROAD

BRONX RIVER AVENUE

E. 177TH STREET

BRUCKNER BOULEVARD

WEBSTER AVE.

WESTCHESTER AVENUE

12 TO 15

THIRD AVE.

WILLIS AVE.

BRUCKNER BOULEVARD

HUNTS POINT AVE.

WHITE PLAINS ROAD

WHITESTONE BR.

RANDALL'S ISLAND

WARD'S ISLAND

RIKER'S ISLAND

EAST RIVER

BRONX CO.

QUEENS CO.

LONG ISLAND SOUND

QUEENS

A

A'

B

C

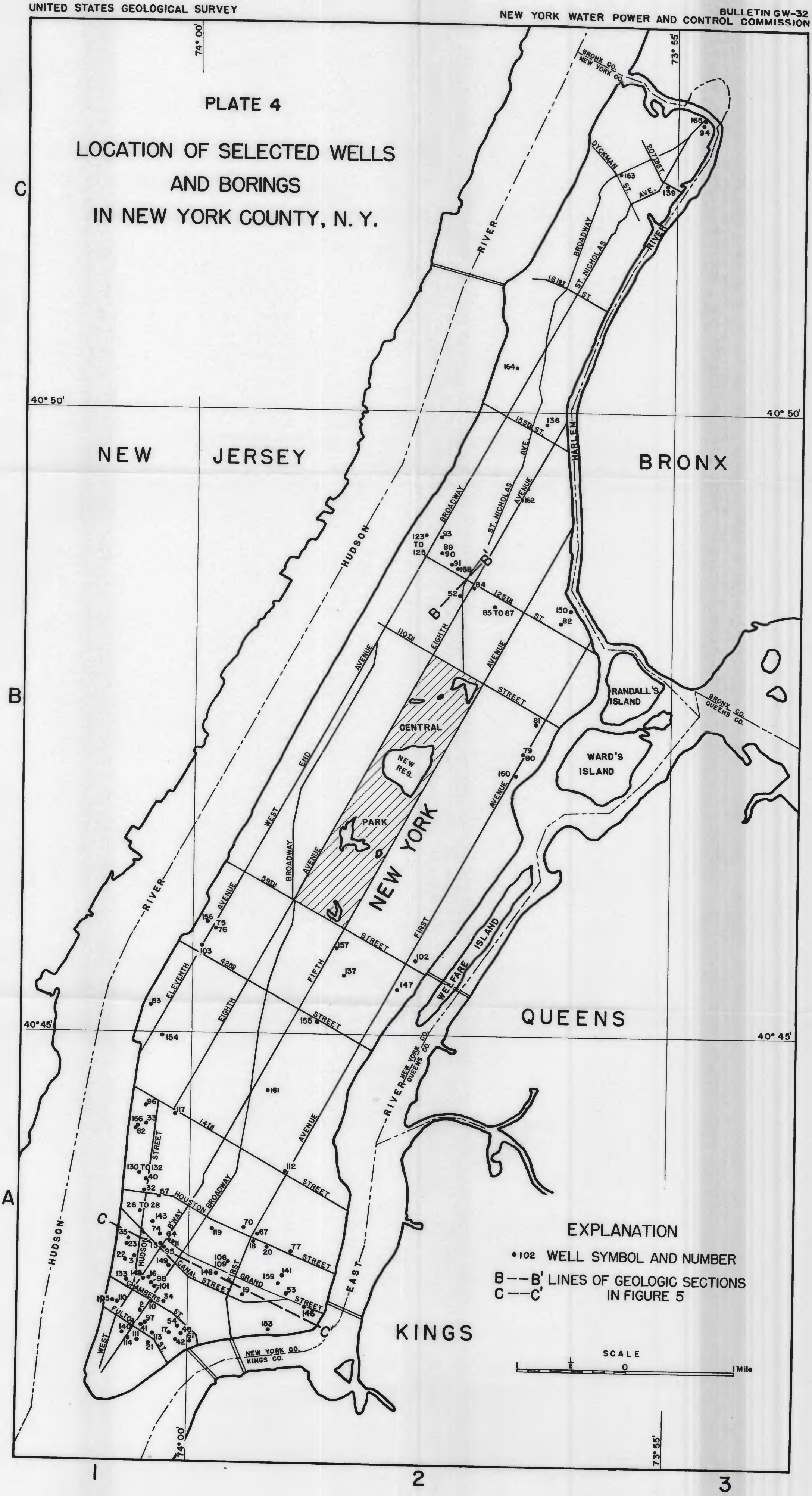
1

2

3

PLATE 4

LOCATION OF SELECTED WELLS AND BORINGS IN NEW YORK COUNTY, N. Y.



EXPLANATION

• 102 WELL SYMBOL AND NUMBER

B — — B' LINES OF GEOLOGIC SECTIONS
C — — C' IN FIGURE 5

SCALE

½ 0 1 Mile

PLATE 5

LOCATION OF SELECTED WELLS AND BORINGS IN RICHMOND COUNTY, N.Y.